

REMARKS

Overview

This amendment accompanies a Request for Continued Examination. Claims 1, 3, 4, 21, 38, 45-47, 49, 50, 58 and 62-64 are pending in the present application. Claims 1, 4, 21, 38, 46, 47, 50, and 58 have been amended. Claims 22-23, 25, 39-42 and 59-61 have been cancelled. The present response is an earnest effort to place all claims in proper form for allowance.

Claim Rejections Under 35 U.S.C. § 112

Claims 1, 3, 4, 21-23, 25, 38-42, 45-46 and 58-61 are rejected under 35 U.S.C. § 112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In particular, the Examiner indicates that "characteristics" is indefinite. Without conceding the accuracy of this rejection, claim 1 has been amended for clarity to remove the term "characteristic". Therefore, it is respectfully submitted that the rejection to claims 1, 3 and 4 should be withdrawn.

With respect to claims 21-23 and 25, it is respectfully submitted that none of these claims include the term "characteristics". Therefore, it is respectfully submitted these rejections must be withdrawn.

With respect to claims 38-42 and 45-56, claim 38 has been amended to remove the term "characteristics". Therefore this rejection should be withdrawn.

With respect to claims 58-61, claim 58 has been amended to remove the term "characteristic". In addition, claims 59-61 have been cancelled. Therefore this rejection should also be withdrawn.

Claim Rejections Under 35 U.S.C. § 102

Claims 47 and 50 are rejected under 35 U.S.C. § 102(e) as being anticipated by Wingard (US Patent No. 6,295,318). Claim 47 has been amended and now recites that the pulse is a "monocycle ultra wideband pulse". Wingard does not disclose such a limitation. See e.g., FIG. 3 in Wingard. Clearly Wingard's pulses are not ultra wideband pulses. Therefore the rejection to claim 47 must be withdrawn. As claim 50 depends from claim 47, this rejection must also be withdrawn.

Claim Rejections Under 35 U.S.C. § 103

Claims 1, 4, 21, 23, 38-40, 42 and 46 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Chang (US Patent No. 4,980,884).

Claims 1 and 4 have been amended thereby mooting these rejections. Claim 1 now recites that the pulses are "ultra wideband" pulses. As Chang does not disclose such a limitation, this rejection should be withdrawn. As claim 4 depends from claim 1, this rejection should also be withdrawn. Claim 21 also now recites that the pulse is an "ultra wideband" pulse. Therefore, this rejection to claim 21 should also be withdrawn. Claim 23 has been cancelled thereby mooting that rejection. Claim 38 has been amended to recite that the pulse is an "ultra wideband" pulse. Claims 39-40 and 42 have been cancelled. Claim 46 depends from claim 38, therefore, it is respectfully submitted that these rejections should all be withdrawn.

Claim 3 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Chang (US Patent No. 4,980,884) in view of Campana, Jr. (US Patent No. 6,198,783 B1). Claim 3 depends

from now amended claim 1. Neither Chang nor Campana, Jr. disclose ultra wideband pulses. Therefore this rejection to claim 2 must be withdrawn.

Claim 22 and 25 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Chang (US Patent No. 4,980,884) in view of Rybicki et al. (US Patent Publication No. 2001/0055353 A1). Claims 22 and 25 have been cancelled thereby mooted these rejections.

Claim 49 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Wingard (US Patent No. 6,295,318), in view of Fensch et al. (US Patent No. 6,307,864 B1). Claim 49 depends from now amended claim 47. Neither Wingard nor Fensch et al. disclose the "ultra wideband" pulse currently claimed. Therefore this rejection to claim 49 should be withdrawn.

Claims 58-61 are rejected Under 35 U.S.C. § 103(a) as being unpatentable over Dress, Jr. et al. (US Patent No. 6,603,818 B1). Claim 58 recites "transmitting the time modulated ultra wideband pulse over a guided medium from a transmitter to a receiver". Neither Dress, Jr. et al. nor Keller et al. disclose such a limitation. Therefore, this rejection must be withdrawn. As claims 59-61 are cancelled, these rejections are moot.

Claims 62-64 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Dress, Jr. et al. (US Patent No. 6,603,818 B1) in view of Keller et al. (US Patent No. 4,931,751). With respect to claims 62-64, claim 62 requires "transmitting the single time modulated ultra wideband radio frequency pulse over a guided medium from a transmitter to a receiver". Neither Dress, Jr. et al. nor Keller disclose such a limitation and therefore this rejection to claim 62

should be withdrawn. Since claims 63-64 depend from claim 62 these rejections should also be withdrawn.

Claims 1, 4, 21-23, 25, 38-42, 46-47 and 50 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Rybicki et al. (US Patent Publication No. 2001/0055353 A1). These rejections are moot in view of claim amendments adding "ultra wideband" limitations.

Claims 45 and 49 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Rybicki et al. (US Patent Publication No. 2001/0055353 A1) in view of Campana, Jr. (US Patent No. 6,198,783 B1). These rejections are moot in view of the amendment to claims 38 and 47 from which dependency is claimed.

Claims 58-61 are rejected under 35 U.S.C. § 103(a) as being unpatentable under McCorkle et al. (US Patent No. 6,700,939). Claims 59-61 have been cancelled. Claim 58 has been amended for clarity. Claim 58 requires "transmitting the time modulated ultra wideband pulse over a guided medium from a transmitter to a receiver". McCorkle et al. simply does not disclose such a limitation.

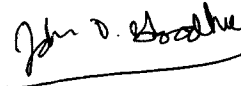
Conclusion

This amendment accompanies the filing of a Request for Continued Examination (RCE). Please charge Deposit Account No. 26-0084 the amount of \$405.00 for the RCE per the attached transmittal. No other fees or extensions of time are believed to be due in connection with this

amendment; however, consider this a request for any extension inadvertently omitted, and charge any additional fees to Deposit Account No. 26-0084.

Reconsideration and allowance is respectfully requested.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "John D. Goodhue", is written over a horizontal line.

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